

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P954792

Luminaire Tested: **GALN-SB7D-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51252 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

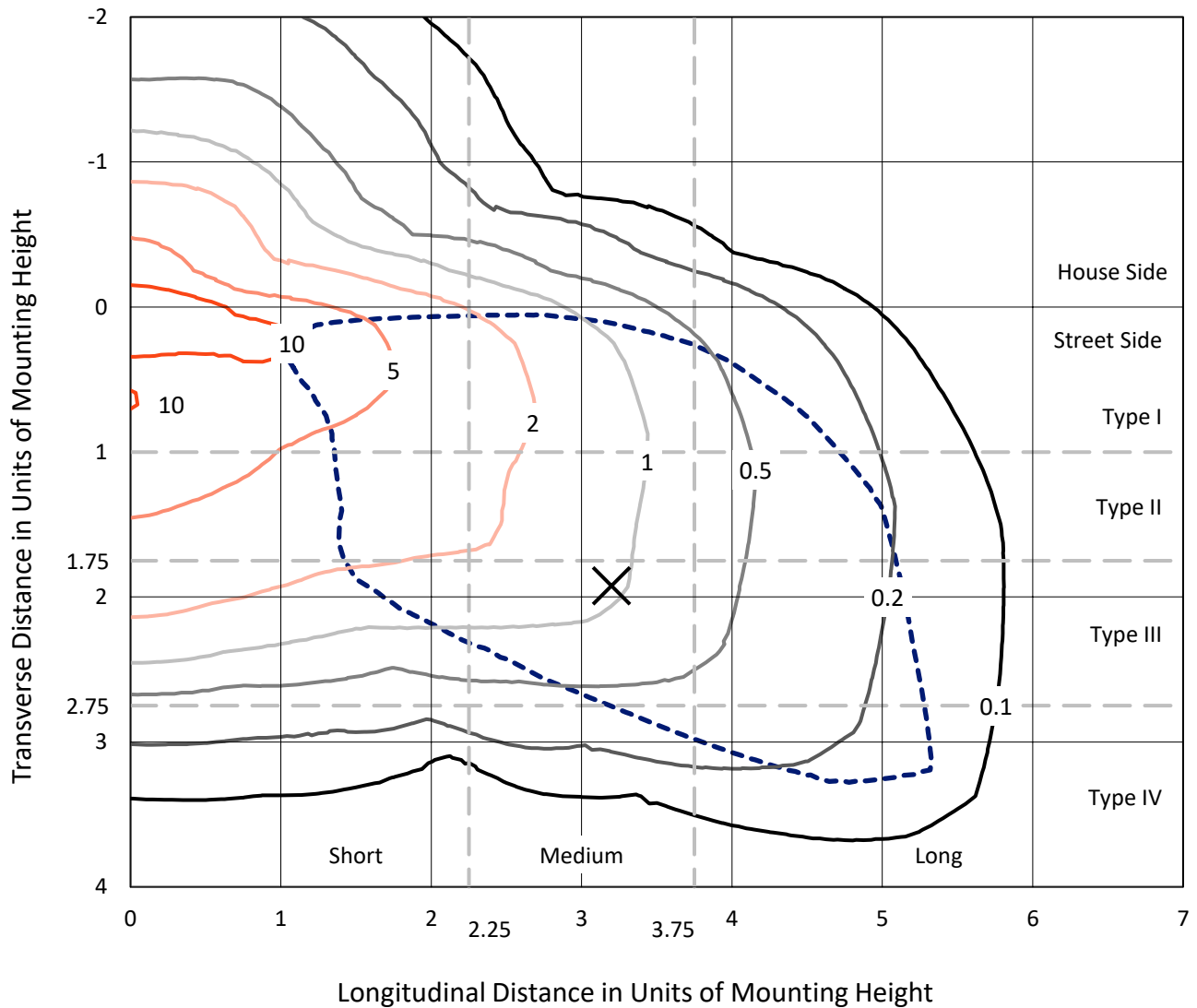
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

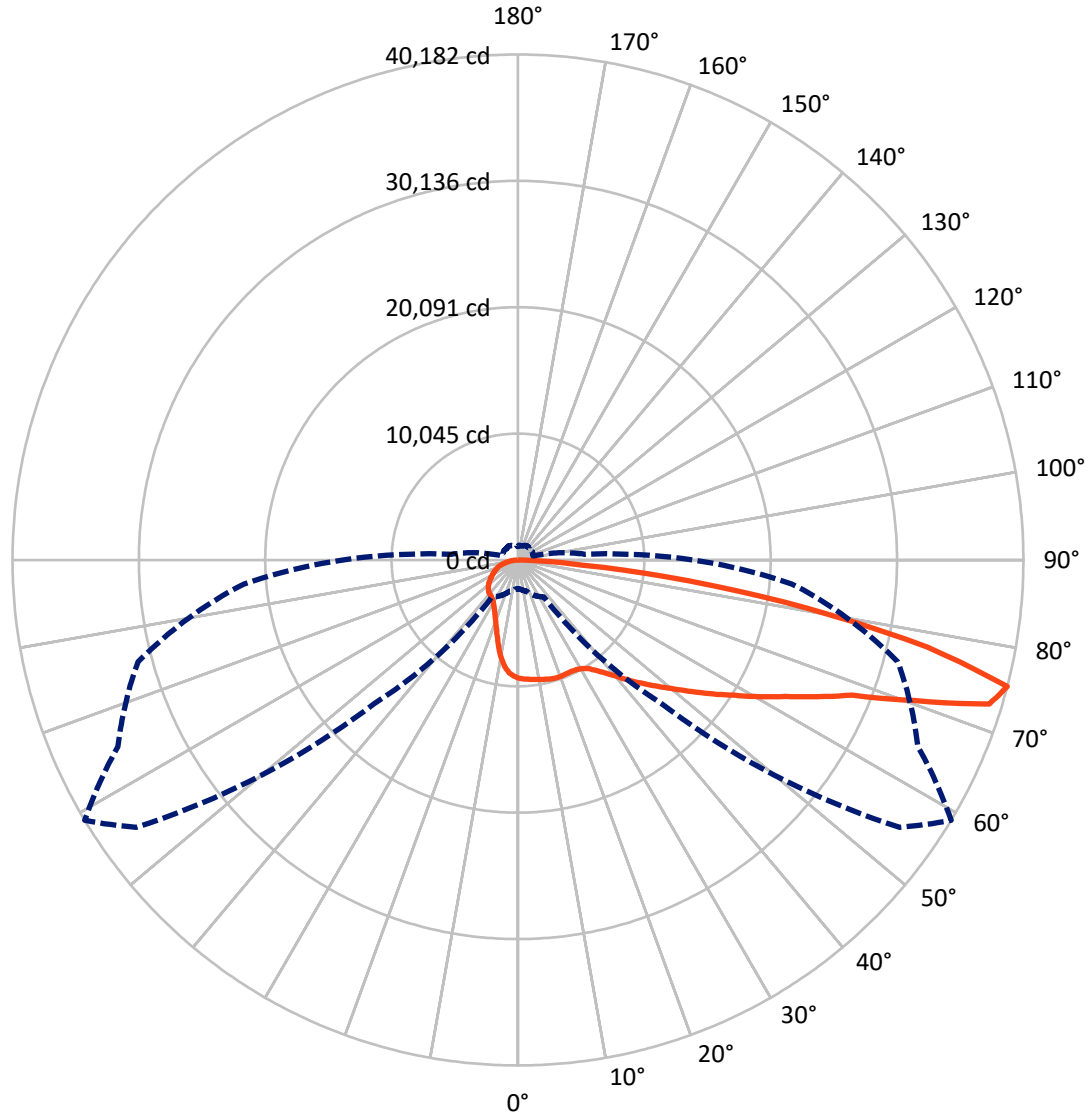
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9612.7	0.0	9612.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	41639.3	0.0	41639.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	51252.0	0.0	51252.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	843.5	1.6
10°-20°	2156.1	4.2
20°-30°	3274.9	6.4
30°-40°	4868.0	9.5
40°-50°	7239.6	14.1
50°-60°	9826.9	19.2
60°-70°	11997.0	23.4
70°-80°	9415.1	18.4
80°-90°	1630.9	3.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	51252.0	100.0
0°-180°	51252.0	100.0

Coefficient of Utilization



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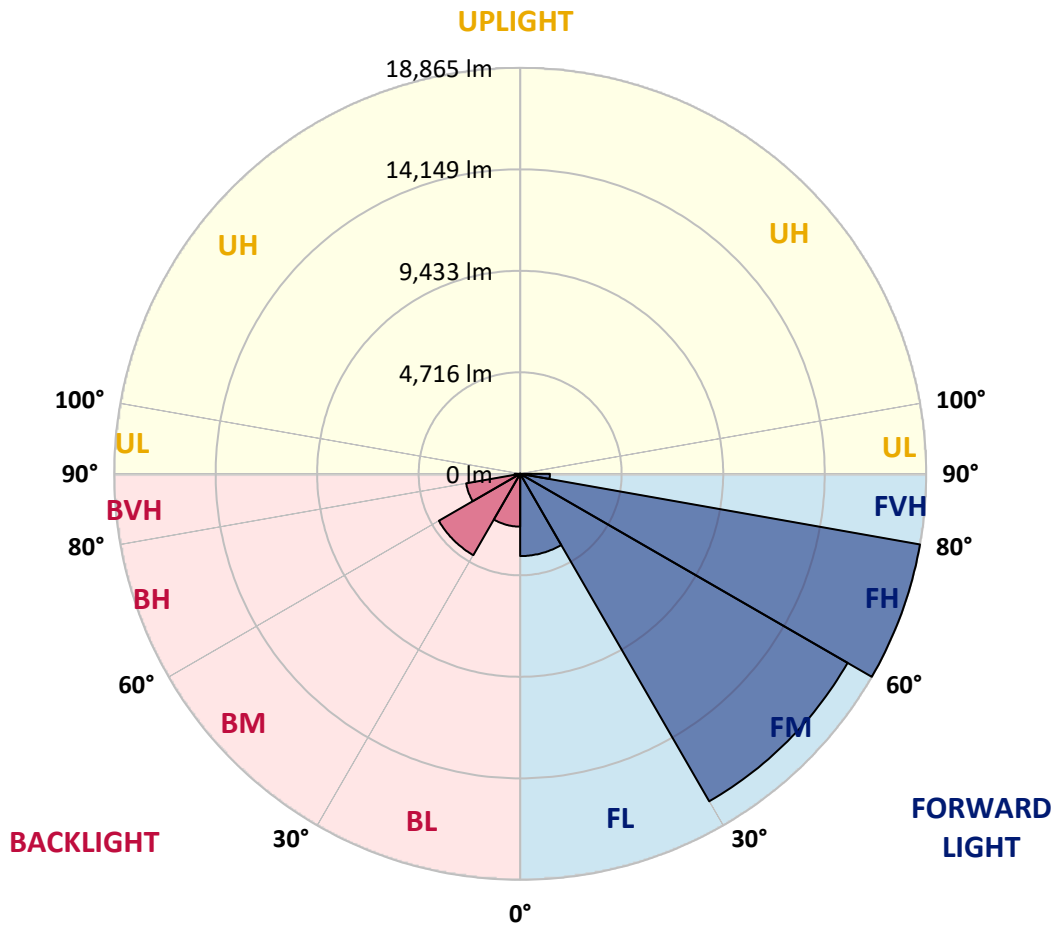
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3821.4	7.5			
FM (30°-60°)	17571.3	34.3			
FH (60°-80°)	18865.4	36.8			G5
FVH (80°-90°)	1381.3	2.7			G5
BL (0°-30°)	2453.0	4.8	B3/2500		
BM (30°-60°)	4363.2	8.5	B3/5000		
BH (60°-80°)	2546.8	5.0	B4/5000		G4/5000
BVH (80°-90°)	249.7	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	9407.2	9407.2	9407.2	9407.2	9407.2	9407.2	9407.2	9407.2	9407.2	9407.2
2.5°	9487.1	9454.1	9487.1	9473.4	9467.8	9456.8	9459.6	9478.9	9467.8	9481.6
5°	9423.7	9404.4	9437.5	9429.2	9465.1	9470.6	9506.4	9528.5	9542.3	9545.0
7.5°	9319.0	9299.7	9346.5	9385.1	9462.3	9484.4	9558.8	9594.7	9614.0	9647.1
10°	8935.7	8927.5	9043.3	9189.4	9371.3	9484.4	9597.4	9658.1	9688.4	9776.6
12.5°	8257.5	8268.5	8420.2	8701.4	9065.3	9429.2	9641.5	9729.8	9776.6	9886.9
15°	7609.6	7606.8	7772.2	8072.8	8582.8	9186.6	9663.6	9815.2	9895.2	10057.9
17.5°	7234.6	7223.6	7339.4	7568.2	8042.4	8814.4	9608.5	9862.1	10033.0	10237.1
20°	7165.7	7143.6	7204.3	7317.3	7653.7	8406.4	9465.1	9862.1	10143.3	10408.0
22.5°	7416.6	7380.7	7355.9	7342.1	7491.0	8070.0	9302.4	9829.0	10306.0	10653.4
25°	7921.1	7866.0	7739.2	7615.1	7571.0	7918.4	9159.1	9820.8	10548.6	10984.2
27.5°	8737.2	8668.3	8411.9	8114.1	7846.7	7995.6	9095.6	9870.4	10816.1	11334.4
30°	9749.1	9674.6	9352.0	8894.4	8414.6	8282.3	9175.6	10016.5	11157.9	11800.3
32.5°	10656.2	10573.4	10297.7	9831.8	9183.9	8778.6	9429.2	10295.0	11695.6	12448.3
35°	11461.2	11364.7	11116.6	10686.5	10126.8	9476.1	9886.9	10788.5	12459.3	13501.5
37.5°	12249.7	12136.7	11866.5	11411.6	11020.1	10405.3	10518.3	11422.6	13473.9	14780.8
40°	13132.0	12969.4	12641.3	12191.9	11811.4	11494.3	11348.2	12200.1	14505.0	16208.9
42.5°	13986.7	13832.3	13440.8	13057.6	12580.6	12489.6	12310.4	13110.0	15632.7	17777.7
45°	14907.6	14722.9	14248.6	13763.4	13462.9	13151.3	13242.3	14019.8	16738.3	19376.8
47.5°	15770.6	15563.8	15004.1	14463.7	14298.3	13708.3	14097.0	15020.6	17888.0	20998.0
50°	16236.5	16032.5	15566.5	15078.5	14948.9	14394.8	15023.4	16120.7	19092.8	22613.7
52.5°	16625.3	16404.7	15795.4	15525.2	15486.6	15141.9	16164.8	17377.9	20297.7	24041.8
55°	17038.8	16793.4	16015.9	15773.3	15949.8	15980.1	17518.5	18803.4	21571.5	25434.2
57.5°	17515.8	17204.2	16228.2	15982.8	16401.9	16961.6	19073.5	20281.2	22823.2	26724.5
60°	17965.2	17650.9	16636.3	16316.5	16889.9	18100.3	20857.4	22070.5	24240.3	27874.2
62.5°	18053.4	17794.3	16961.6	16958.9	17551.6	19429.2	22969.3	23876.4	25478.3	29010.1
65°	16526.0	16363.3	15869.8	16934.0	18500.1	21342.6	25321.1	26186.8	27052.6	30002.7
67.5°	12577.8	12599.9	12564.1	14618.1	17733.6	24091.5	28726.1	28659.9	28996.3	31116.5
70°	5751.3	5880.9	6724.5	10090.9	14207.3	24408.5	34356.1	33498.6	31436.3	32558.5
72.5°	3107.2	3206.5	3551.1	4888.3	8541.5	21701.1	38563.4	39172.7	34681.4	33529.0
75°	2280.1	2335.3	2575.1	3107.2	3587.0	16129.0	37055.3	40181.8	35086.7	31265.4
77.5°	1706.6	1731.5	1927.2	2462.1	1836.2	8502.9	29608.4	33278.1	30035.7	25687.8
80°	1237.9	1265.5	1411.6	1847.3	1287.6	3110.0	20330.8	23358.1	20570.6	16374.4
82.5°	854.7	865.7	929.1	1257.2	898.8	1207.6	11535.7	13697.2	11483.3	5745.8
85°	515.6	529.4	556.9	733.4	510.1	573.5	4979.3	5150.2	3432.6	1373.0
87.5°	212.3	226.1	248.1	308.8	201.3	159.9	821.6	1031.2	642.4	402.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
9407.2	0°	9407.2	9407.2	9407.2	9407.2	9407.2	9407.2	9407.2	9407.2	9407.2	9407.2
9434.8	2.5°	9421.0	9401.7	9349.3	9277.6	9211.4	9128.7	9092.9	9062.6	9035.0	8982.6
9509.2	5°	9478.9	9426.5	9285.9	9103.9	8897.1	8671.0	8450.5	8298.8	8169.3	8072.8
9594.7	7.5°	9567.1	9467.8	9211.4	8839.2	8365.0	7879.8	7441.4	7129.8	6895.5	6810.0
9716.0	10°	9658.1	9539.5	9092.9	8436.7	7617.8	6870.7	6288.9	5969.1	5781.6	5721.0
9859.4	12.5°	9765.6	9591.9	8908.2	7877.0	6782.4	5963.6	5456.3	5268.8	5172.3	5139.2
10035.8	15°	9922.8	9636.0	8629.7	7176.7	5985.6	5301.9	4973.8	4844.2	4794.6	4791.8
10217.8	17.5°	10041.3	9644.3	8196.8	6426.8	5373.6	4902.1	4631.9	4582.3	4615.4	4665.0
10397.0	20°	10173.7	9569.9	7628.9	5743.0	4943.5	4552.0	4438.9	4472.0	4552.0	4623.6
10634.1	22.5°	10267.4	9434.8	6942.4	5210.9	4571.3	4350.7	4345.2	4414.1	4458.2	4494.1
10912.6	25°	10350.1	9205.9	6214.5	4764.3	4265.2	4229.4	4290.0	4268.0	4237.6	4268.0
11191.0	27.5°	10410.8	8844.7	5563.8	4372.7	4050.2	4146.7	4110.8	4061.2	4058.4	4075.0
11519.1	30°	10391.5	8362.3	5028.9	4000.5	3898.5	3992.3	3906.8	3898.5	3890.3	3898.5
12012.6	32.5°	10391.5	7813.6	4618.1	3744.1	3802.0	3766.2	3757.9	3738.6	3705.5	3702.8
12682.6	35°	10449.4	7264.9	4265.2	3606.3	3722.1	3636.6	3642.1	3595.2	3526.3	3493.2
13570.4	37.5°	10567.9	6823.8	3915.1	3540.1	3581.5	3578.7	3556.6	3476.7	3355.4	3250.6
14678.7	40°	10854.7	6694.2	3675.2	3509.8	3515.3	3548.4	3490.5	3336.1	3060.4	2889.4
15803.6	42.5°	11304.1	6912.0	3622.8	3435.3	3471.2	3504.3	3391.2	3032.8	2837.0	2735.0
16983.7	45°	11874.8	7292.5	3735.9	3327.8	3366.4	3424.3	3087.9	2917.0	2828.8	2831.5
18152.7	47.5°	12597.1	7692.3	3945.4	3234.1	3214.8	3247.9	2886.7	2781.9	2660.6	2690.9
19274.8	50°	13432.5	8097.6	4143.9	3107.2	3046.6	2939.1	2757.1	2657.8	2503.4	2431.8
20358.4	52.5°	14336.9	8489.1	4223.9	2952.8	2864.6	2740.5	2668.9	2547.6	2360.1	2241.5
21381.2	55°	15194.3	8844.7	4135.6	2768.1	2682.6	2586.2	2575.1	2500.7	2299.4	2134.0
22291.1	57.5°	16004.9	9142.5	3915.1	2580.6	2497.9	2440.0	2514.5	2478.6	2225.0	2012.7
23151.3	60°	16691.4	9346.5	3595.2	2390.4	2332.5	2302.2	2415.2	2404.2	2120.2	1883.1
23923.3	62.5°	17237.3	9426.5	3242.3	2208.4	2194.6	2139.5	2277.4	2277.4	1987.9	1756.3
24601.5	65°	17664.7	9349.3	2883.9	2029.2	2056.8	1974.1	2109.2	2092.6	1847.3	1643.2
25381.8	67.5°	18042.4	9095.6	2486.9	1852.8	1916.2	1811.4	1932.7	1894.1	1692.9	1530.2
26057.3	70°	18210.6	8505.6	2034.7	1676.3	1753.5	1651.5	1756.3	1684.6	1519.2	1408.9
25315.6	72.5°	16859.6	7069.2	1601.9	1491.6	1557.8	1475.0	1566.0	1483.3	1331.7	1282.0
21861.0	75°	13948.1	5304.6	1232.4	1290.3	1339.9	1276.5	1337.2	1276.5	1138.7	1174.5
16148.3	77.5°	10129.5	3581.5	942.9	1078.0	1100.1	1067.0	1119.4	1050.5	926.4	918.1
8047.9	80°	5037.2	2098.1	738.9	851.9	843.7	821.6	882.3	849.2	744.4	788.5
2172.6	82.5°	1458.5	898.8	537.6	598.3	581.7	587.3	631.4	647.9	970.5	962.2
675.5	85°	457.7	352.9	322.6	333.6	317.1	325.3	372.2	738.9	683.8	399.8
209.5	87.5°	118.6	121.3	80.0	85.5	88.2	104.8	118.6	449.4	215.1	140.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
9407.2
8957.8
7992.8
6661.1
5627.2
5147.5
4802.9
4684.3
4648.5
4513.4
4287.3
4102.5
3928.9
3738.6
3526.3
3286.5
2911.5
2735.0
2845.3
2768.1
2451.1
2238.8
2134.0
2001.6
1874.8
1748.0
1632.2
1519.2
1386.8
1240.7
1072.5
876.8
780.3
984.3
432.9
148.9
0.0

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